SEQUENCE LISTING

<110> Nastech Pharmaceutical Company Inc.
Quay, Steven C.
Brandt, Gordon
Kleppe, Mary S.
MacEvilly, Conor J.

<120> COMPOSITIONS AND METHODS FOR ENHANCED MUCOSAL DELIVERY OF Y2 RECEPTOR-BINDING PEPTIDES AND METHODS FOR TREATING AND PREVENTING OBESITY

<130> 02-04CIP3

<150> US 10/745,069
<151> 2003-12-23

<150> US 10/322,266
<151> 2002-12-17

<150> US 60/493,226
<151> 2003-08-07

<150> US 60/501,170
<151> 2003-09-08

<150> US 60/510,785
<151> 2003-10-10

<150> US 60/517,290
<151> 2003-11-04

<160> 105

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 36
<212> PRT
<213> Homo sapiens

<400> 1
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 2
<211> 34

<212> PRT
<213> Homo sapiens

<400> 2
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr

<210> 3
<211> 15
<212> PRT
<213> Homo sapiens

<400> 3
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 4
<211> 33
<212> PRT
<213> Homo sapiens

<400> 4
Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30
Tyr

<210> 5
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5
Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr
1 5 10 15
Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 6
<211> 31
<212> PRT
<213> Homo sapiens

<400> 6
Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr

1 5 10 15
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 7
<211> 30
<212> PRT
<213> Homo sapiens

<400> 7
Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala
1 5 10 15
Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 8
<211> 29
<212> PRT
<213> Homo sapiens

<400> 8
Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 9
<211> 28
<212> PRT
<213> Homo sapiens

<400> 9
Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu
1 5 10 15
Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 10
<211> 27
<212> PRT
<213> Homo sapiens

<400> 10
Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg
1 5 10 15
His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 11
<211> 26

<212> PRT
<213> Homo sapiens

<400> 11
Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His
1 5 10 15
Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 12
<211> 25
<212> PRT
<213> Homo sapiens

<400> 12
Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr
1 5 10 15
Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 13
<211> 24
<212> PRT
<213> Homo sapiens

<400> 13
Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15
Asn Leu Val Thr Arg Gln Arg Tyr
20

<210> 14
<211> 23
<212> PRT
<213> Homo sapiens

<400> 14
Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn
1 5 10 15
Leu Val Thr Arg Gln Arg Tyr
20

<210> 15
<211> 22
<212> PRT
<213> Homo sapiens

<400> 15
Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu
1 5 10 15
Val Thr Arg Gln Arg Tyr

20

<210> 16
<211> 21
<212> PRT
<213> Homo sapiens

<400> 16
Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val
1 5 10 15
Thr Arg Gln Arg Tyr
20

<210> 17
<211> 20
<212> PRT
<213> Homo sapiens

<400> 17
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
1 5 10 15
Arg Gln Arg Tyr
20

<210> 18
<211> 19
<212> PRT
<213> Homo sapiens

<400> 18
Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg
1 5 10 15
Gln Arg Tyr

<210> 19
<211> 18
<212> PRT
<213> Homo sapiens

<400> 19
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
1 5 10 15
Arg Tyr

<210> 20
<211> 17
<212> PRT
<213> Homo sapiens

<400> 20
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
1 5 10 15
Tyr

<210> 21
<211> 16
<212> PRT
<213> Homo sapiens

<400> 21
Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 22
<211> 36
<212> PRT
<213> Homo sapiens

<400> 22
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 23
<211> 11
<212> PRT
<213> Homo sapiens

<400> 23
His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10

<210> 24
<211> 34
<212> PRT
<213> Homo sapiens

<400> 24
Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala
1 5 10 15
Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
20 25 30
Arg Tyr

<210> 25
<211> 33
<212> PRT
<213> Homo sapiens

<400> 25
Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg
1 5 10 15
Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg
20 25 30
Tyr

<210> 26
<211> 32
<212> PRT
<213> Homo sapiens

<400> 26
Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
1 5 10 15
Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25 30

<210> 27
<211> 31
<212> PRT
<213> Homo sapiens

<400> 27
Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr
1 5 10 15
Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25 30

<210> 28
<211> 30
<212> PRT
<213> Homo sapiens

<400> 28
Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser
1 5 10 15
Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25 30

<210> 29
<211> 29
<212> PRT
<213> Homo sapiens

<400> 29
Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala
1 5 10 15
Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25

<210> 30
<211> 28
<212> PRT
<213> Homo sapiens

<400> 30
Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu
1 5 10 15
Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25

<210> 31
<211> 27
<212> PRT
<213> Homo sapiens

<400> 31
Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg
1 5 10 15
His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25

<210> 32
<211> 26
<212> PRT
<213> Homo sapiens

<400> 32
Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His
1 5 10 15
Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25

<210> 33
<211> 25
<212> PRT
<213> Homo sapiens

<400> 33
Ala Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr
1 5 10 15
Ile Asn Leu Ile Thr Arg Gln Arg Tyr
20 25

<210> 34
<211> 24
<212> PRT
<213> Homo sapiens

<400> 34
Pro Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile
1 5 10 15
Asn Leu Ile Thr Arg Gln Arg Tyr
20

<210> 35
<211> 23
<212> PRT
<213> Homo sapiens

<400> 35
Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn
1 5 10 15
Leu Ile Thr Arg Gln Arg Tyr
20

<210> 36
<211> 22
<212> PRT
<213> Homo sapiens

<400> 36
Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu
1 5 10 15
Ile Thr Arg Gln Arg Tyr
20

<210> 37
<211> 21
<212> PRT
<213> Homo sapiens

<400> 37
Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile
1 5 10 15
Thr Arg Gln Arg Tyr
20

<210> 38
<211> 20
<212> PRT
<213> Homo sapiens

<400> 38

Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
1 5 10 15
Arg Gln Arg Tyr
20

<210> 39
<211> 19
<212> PRT
<213> Homo sapiens

<400> 39
Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg
1 5 10 15
Gln Arg Tyr

<210> 40
<211> 18
<212> PRT
<213> Homo sapiens

<400> 40
Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln
1 5 10 15
Arg Tyr

<210> 41
<211> 17
<212> PRT
<213> Homo sapiens

<400> 41
Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg
1 5 10 15
Tyr

<210> 42
<211> 16
<212> PRT
<213> Homo sapiens

<400> 42
Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10 15

<210> 43
<211> 15
<212> PRT

<213> Homo sapiens

<400> 43
Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10 15

<210> 44
<211> 14
<212> PRT
<213> Homo sapiens

<400> 44
Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10

<210> 45
<211> 13
<212> PRT
<213> Homo sapiens

<400> 45
Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10

<210> 46
<211> 12
<212> PRT
<213> Homo sapiens

<400> 46
Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
1 5 10

<210> 47
<211> 36
<212> PRT
<213> Homo sapiens

<400> 47
Ala Ser Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 48
<211> 11
<212> PRT
<213> Homo sapiens

<400> 48
Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10

<210> 49
<211> 34
<212> PRT
<213> Homo sapiens

<400> 49
Leu Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala
1 5 10 15
Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro
20 25 30
Arg Tyr

<210> 50
<211> 33
<212> PRT
<213> Homo sapiens

<400> 50
Glu Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln
1 5 10 15
Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg
20 25 30
Tyr

<210> 51
<211> 32
<212> PRT
<213> Homo sapiens

<400> 51
Pro Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr
1 5 10 15
Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25 30

<210> 52
<211> 31
<212> PRT
<213> Homo sapiens

<400> 52
Glu Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala
1 5 10 15
Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr

20 25 30

<210> 53
<211> 30
<212> PRT
<213> Homo sapiens

<400> 53
Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala
1 5 10 15
Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25 30

<210> 54
<211> 29
<212> PRT
<213> Homo sapiens

<400> 54
Pro Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu
1 5 10 15
Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25

<210> 55
<211> 28
<212> PRT
<213> Homo sapiens

<400> 55
Gly Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu
1 5 10 15
Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25

<210> 56
<211> 27
<212> PRT
<213> Homo sapiens

<400> 56
Asp Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg
1 5 10 15
Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25

<210> 57
<211> 26
<212> PRT
<213> Homo sapiens

<400> 57
Asn Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg
1 5 10 15
Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25

<210> 58
<211> 25
<212> PRT
<213> Homo sapiens

<400> 58
Ala Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr
1 5 10 15
Ile Asn Met Leu Thr Arg Pro Arg Tyr
20 25

<210> 59
<211> 24
<212> PRT
<213> Homo sapiens

<400> 59
Thr Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile
1 5 10 15
Asn Met Leu Thr Arg Pro Arg Tyr
20

<210> 60
<211> 23
<212> PRT
<213> Homo sapiens

<400> 60
Pro Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn
1 5 10 15
Met Leu Thr Arg Pro Arg Tyr
20

<210> 61
<211> 22
<212> PRT
<213> Homo sapiens

<400> 61
Glu Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met
1 5 10 15
Leu Thr Arg Pro Arg Tyr
20

<210> 62
<211> 21
<212> PRT
<213> Homo sapiens

<400> 62
Gln Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu
1 5 10 15
Thr Arg Pro Arg Tyr
20

<210> 63
<211> 20
<212> PRT
<213> Homo sapiens

<400> 63
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
1 5 10 15
Arg Pro Arg Tyr
20

<210> 64
<211> 19
<212> PRT
<213> Homo sapiens

<400> 64
Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg
1 5 10 15
Pro Arg Tyr

<210> 65
<211> 18
<212> PRT
<213> Homo sapiens

<400> 65
Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro
1 5 10 15
Arg Tyr

<210> 66
<211> 17
<212> PRT
<213> Homo sapiens

<400> 66

Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg
1 5 10 15
Tyr

<210> 67
<211> 16
<212> PRT
<213> Homo sapiens

<400> 67
Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10 15

<210> 68
<211> 15
<212> PRT
<213> Homo sapiens

<400> 68
Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10 15

<210> 69
<211> 14
<212> PRT
<213> Homo sapiens

<400> 69
Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10

<210> 70
<211> 13
<212> PRT
<213> Homo sapiens

<400> 70
Leu Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10

<210> 71
<211> 12
<212> PRT
<213> Homo sapiens

<400> 71
Arg Arg Tyr Ile Asn Met Leu Thr Arg Pro Arg Tyr
1 5 10

<210> 72
<211> 36
<212> PRT
<213> Rat

<400> 72
Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15
Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 73
<211> 36
<212> PRT
<213> Pig

<400> 73
Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15
Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 74
<211> 36
<212> PRT
<213> Guinea pig

<400> 74
Tyr Pro Ser Lys Pro Glu Ala Pro Gly Ser Asp Ala Ser Pro Glu Glu
1 5 10 15
Leu Ala Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 75
<211> 36
<212> PRT
<213> Rat

<400> 75
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 76
<211> 36
<212> PRT
<213> Rabbit

<400> 76
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 77
<211> 36
<212> PRT
<213> Dog

<400> 77
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 78
<211> 36
<212> PRT
<213> Pig

<400> 78
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 79
<211> 36
<212> PRT
<213> Cow

<400> 79
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr

35

<210> 80
<211> 36
<212> PRT
<213> Sheep

<400> 80
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Asp Asp Ala Pro Ala Glu Asp
1 5 10 15
Leu Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 81
<211> 36
<212> PRT
<213> Guinea pig

<400> 81
Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp
1 5 10 15
Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr
20 25 30
Arg Gln Arg Tyr
35

<210> 82
<211> 36
<212> PRT
<213> Sheep

<400> 82
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Asp Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 83
<211> 36
<212> PRT
<213> Pig

<400> 83
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30

Arg Pro Arg Tyr
35

<210> 84
<211> 36
<212> PRT
<213> Dog

<400> 84
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 85
<211> 36
<212> PRT
<213> Cat

<400> 85
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 86
<211> 36
<212> PRT
<213> Cow

<400> 86
Ala Pro Leu Glu Pro Glu Tyr Pro Gly Asp Asp Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Ala Ala Glu Leu Arg Arg Tyr Ile Asn Met Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 87
<211> 36
<212> PRT
<213> Rat

<400> 87
Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr His Glu Gln
1 5 10 15
Arg Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr

20 25 30
Arg Pro Arg Tyr
35

<210> 88
<211> 36
<212> PRT
<213> mouse

<400> 88
Ala Pro Leu Glu Pro Met Tyr Pro Gly Asp Tyr Ala Thr Pro Glu Gln
1 5 10 15
Met Ala Gln Tyr Glu Thr Gln Leu Arg Arg Tyr Ile Asn Thr Leu Thr
20 25 30
Arg Pro Arg Tyr
35

<210> 89
<211> 37
<212> PRT
<213> Guinea pig

<400> 89
Ala Pro Leu Glu Pro Val Tyr Pro Gly Asp Asn Ala Thr Pro Glu Gln
1 5 10 15
Gln Met Ala Gln Tyr Ala Ala Glu Met Arg Arg Tyr Ile Asn Met Leu
20 25 30
Thr Arg Pro Arg Tyr
35

<210> 90
<211> 22
<212> PRT
<213> Homo sapiens

<400> 90
Asp Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu
1 5 10 15
Val Thr Arg Gln Arg Tyr
20

<210> 91
<211> 24
<212> PRT
<213> Homo sapiens

<400> 91
Thr Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15
Asn Leu Val Thr Arg Gln Arg Tyr
20

<210> 92
<211> 25
<212> PRT
<213> Homo sapiens

<400> 92
Val Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr
1 5 10 15
Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 93
<211> 26
<212> PRT
<213> Homo sapiens

<400> 93
Glu Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His
1 5 10 15
Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 94
<211> 27
<212> PRT
<213> Homo sapiens

<400> 94
Asp Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg
1 5 10 15
His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 95
<211> 30
<212> PRT
<213> Homo sapiens

<400> 95
Val Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala
1 5 10 15
Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 96
<211> 31
<212> PRT
<213> Homo sapiens

<400> 96
Asp Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg Tyr Tyr
1 5 10 15
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 97
<211> 33
<212> PRT
<213> Homo sapiens

<400> 97
Gln Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30
Tyr

<210> 98
<211> 33
<212> PRT
<213> Homo sapiens

<400> 98
Arg Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30
Tyr

<210> 99
<211> 33
<212> PRT
<213> Homo sapiens

<400> 99
Asn Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn Arg
1 5 10 15
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30
Tyr

<210> 100
<211> 34
<212> PRT
<213> Homo sapiens

<400> 100

Val Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr

<210> 101
<211> 34
<212> PRT
<213> Homo sapiens

<400> 101
Leu Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr

<210> 102
<211> 27
<212> PRT
<213> Homo sapiens

<400> 102
Asp Asp Ala Ser Pro Asp Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg
1 5 10 15
His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 103
<211> 31
<212> PRT
<213> Homo sapiens

<400> 103
Asp Ala Pro Gly Glu Asp Ala Thr Pro Glu Glu Leu Asn Arg Tyr Tyr
1 5 10 15
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25 30

<210> 104
<211> 33
<212> PRT
<213> Homo sapiens

<400> 104
Asn Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Asp Glu Leu Asn Arg
1 5 10 15
Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg

20 25 30
Tyr

<210> 105
<211> 34
<212> PRT
<213> Homo sapeins

<400> 105
Leu Lys Pro Glu Ala Pro Gly Asp Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr